

WYN ANDERSON

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TECHNOLOGIES

React, JavaScript, Next.js, Node, Express, Redux, Vite, HTML 5, CSS 3, Firebase, Figma, Photoshop, Matlab

WORK EXPERIENCE

Program Manager

MAGICALL, INC.

2021 - PRESENT

Electric Motor Avionics Software

- Provided leadership, direction, and project governance to a multidisciplinary team of 10+ engineers.
- Owned and implemented company-wide, strategic certification and development planning for safety-critical avionics software.
- Contributed to software architectural decisions that resulted in a 50% reduction in software response time.
- Lead 20+ C and C++ code reviews adhering to the certification requirements of safety-critical software items. These reviews highlighted and addressed 8 potential risks, saving upwards of 6 months of development time.
- Successfully managed compliance interactions of 300+ customer requirements, analyzing trade-offs of potential product solutions and their effects on the overall compliance snapshot.
- Architected automated software testing procedures that will increase unit test coverage by 40% and reduce manual testing by 30 hours per regression analysis iteration.

PROJECT EXPERIENCE

Homebase

Real Estate Trend Analysis

[Github](#)

[VISIT](#)

React, JavaScript, CSS, DeckGL, Zustand, Fuse, Mapbox, Vite

- Created a modern React application that implemented DeckGL and Mapbox's API to efficiently visualize large datasets while remaining performant.
- Developed spatial join algorithms to merge Zillow's economic models with US Census data.
- Optimized naive join algorithms to reduce time complexity, decreasing dataset load time from 60 seconds to 2 seconds.
- Wrote custom hooks for data fetching which were merged with Zustand's state management to provide accurate loading indicators across the entire application.

Spark

Financial Modeling CRUD Web App

[Github](#)

[VISIT](#)

React, JavaScript, Formik, Yup, Firebase, Vite

- Developed an intuitive React application that models future financial performance based on users' income, savings habits, and investments.
- Designed an efficient, additive array algorithm to accurately combine multiple assets' effects on a user's portfolio.
- Validated user input with Formik and Yup, ensuring the correctness of the model while maintaining the responsiveness of the user input controls.
- Implemented an asset management module used to create, read, update, and delete assets from a Firestore database. Data persistence across devices is accomplished with Google SSO.

EDUCATION

California Polytechnic State University, San Luis Obispo (Cal Poly)

2021

Bachelors of Science, Aerospace Engineering